



AUTOMOTIVE SERVICE TECHNOLOGY

MINIMUM EQUIPMENT LIST

INSTRUCTIONAL EQUIPMENT AND SOFTWARE

Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
Television/VCR/DVD	1	1	1	25"
Overhead Projector with screen	1	1	1	
A/V Cart/Media Storage Center	1	1	1	
LCD	1	1	1	

HAND TOOLS

Pliers Set	3	4	5	Combination 6", needle nose 6", hose clamp, side cutters, locking jaw, slip joint (water pump)
Pry Bar	3	4	5	Rolling head, straight
Punch Set	3	4	5	Pin-5/16", 1/4", 3/16", & 1/8" Taper-5/8", 1/2", & 3/8" Center, brass drift
Screwdrivers Set	3	4	5	Slotted: stubby-6", 9", 12", offset Phillips: stubby-#1 & #2, 6"-#1 and #2, 12"-#3, offset #2 Posidrive: #1, #2, #3, #4 Impact driver set Torx: T-8, T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-50, T-55
Socket Set	3	4	5	1/2" drive, 7/16"-1 1/8" U.S. std. & deep socket, 10mm-25mm std. & deep socket, extensions (3", 6", 12"), flex handle, ratchets
Socket Set	3	4	5	1/4" drive, 1/4" – 1/2" standard & deep socket, 6mm-12mm standard & deep socket, flex/univ. joint, ratchet, extensions (3", 6")
Socket Set	3	4	5	3/8" drive 5/16" thru 3/4" standard (6pt), 3/8" thru 3/4" deep socket (6pt), 9mm to 19mm std. & deep socket, extensions (3", 6", 12", 18"), flexhead ratchet, universal joint, ratchet, speed handle, 5/8" & 13/16" spark plug sockets, 3/8"-3/4" flex. socket set, 9mm-19mm flex. socket set
Wrench Set, Combination	3	4	5	1/4"-1", 7mm-19mm
Wrench Set, Crowfoot	3	4	5	Standard and metric

Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
Wrench Set, Flare Nut	1	1	1	3/8"-3/4"(tubing), 10mm-17mm
Wrench Set, Ignition	3	4	5	Standard and metric
Wrench, Impact	3	4	5	1/2" drive
Wrench, Impact	3	4	5	3/8" drive
Wrench, Torque	3	4	5	3/8" drive 10-250 lb.in. 3/8" drive 5-75 lb.ft. 1/2" drive 50-250 lb.ft.
GENERAL LABORATORY EQUIPMENT				
Air Chisel & Bit Set	3	4	5	Incl. adapters & various bits
Air Compressor	1	1	1	5-10 HP, 100 gal.
Air Delivery System	1	1	1	With pressure regulator and piping system, minimum 2 air outlets per work area in lab
Air Ratchet	3	4	5	3/8" drive
Caliper Set, Vernier	1	1	1	0"-6", 0mm-125mm
Charger, Battery	1	1	1	40 amp, 12v
Cleaning Tank, Parts	2	2	2	Non-solvent based cleanser suggested
Compression Tester	1	1	1	
Computer Scan Tool	1	1	1	Hand held or PC with interface capability for on board diagnostics (OBD II trouble code compliant)
Computer System	1	1	1	Refer to current Technical and Professional Education Technology Standards
Computer Printer	1	1	1	Refer to current Technical and Professional Education Technology Standards
Coolant/Combustion Gas Detector	1	1	1	
Cooling System Pressure Tester	3	3	3	Including Adapters
CV Joint Service Tools	1	1	1	Including boot installation tool, and boot clamping pliers or crimping ring
Cylinder Leakage Tester	1	1	1	
Dial Indicator Sets	3	4	5	Incl. flex arm & clamp base
Dispenser, Gear Lube	3	4	5	

Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
Drill Bit Set	3	4	5	Twist drill, 1/64-1/2", high speed
Drill, Electric	3	4	5	1/2", variable speed, reversible
Drill, Electric	3	4	5	3/8", variable speed, reversible
Grinder, Bench or Pedestal	1	1	1	6" dia. Wheel
Hoist	2	2	2	Swing arm, frame contact
Jack, Floor	3	4	5	Hydraulic, 2 ton
Meters, Tach/Dwell	3	4	5	Hand held
Micrometer Set	1	1	1	Outside type: 0-1", 1-2", 2-3", 3-4", 4-5"
Micrometer, Depth	1	1	1	
Multimeter, Digital	3	4	5	AC/DC, volts, ohms & amps, w/various lead sets
Pliers Set, Snap Ring	3	4	5	Internal and external
Press, Hydraulic	1	1	1	25-ton, w/adapters (piston pin press and adapters)
Puller Set, Master Gear	1	1	1	Complete w/cabinet
Recovery System, Engine Coolant	1	1	1	Recycler or coolant disposal contract services
Socket Set, Impact	1	1	1	1/2" drive, 12mm-32mm
Socket Sets, Impact	1	1	1	1/2" drive, 7/16"-1 1/8"
Socket Sets, Impact	1	1	1	3/8" drive, standard and metric
Stands, Jack	8 Pair	8 Pair	8 Pair	5-ton, 4 leg, safety stands
Tap and Die Set	1	1	1	Standard and metric
Thread Repair Insert Kit	1	1	1	
Tubing Bender	1	1	1	
Tubing Cutter & Flaring Set	1	1	1	
V-Blocks	1	1	1	
Vise, Bench	10	10	10	Fitted to steel work benches
Waste Oil Receptacle	1	1	1	Extension neck & funnel
Welder, Portable	1	1	1	Oxy-Acetylene Unit (Complete welding outfit w/cutting torch attachments, bottles, and cylinder truck)
Work Bench, Steel	10	10	10	30" X 72", all work tables and work benches are to be metal
Wrench, Impact	1	1	1	1/2" and 3/8" drive

Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
SPECIALTY AREA EQUIPMENT				
The " specialty area equipment " section covers the <u>additional</u> equipment an automotive laboratory should have for training in the specialty area. Some of the tools and equipment may be the same as for other specialty areas. Because the equipment is specialized, and to provide quality instruction, the equipment must be available in the laboratory. The quantity listed allows equipment to be used in more than one specialty area.				
Ball Joint Press and other Special Tools	1	1	1	
Chassis Lubricator System	1	1	1	
Compressor, Spring/Strut	1	1	1	
Dial Indicator Set	1	1	1	
Socket Wrench, Drag Link	3	4	5	
Tire Mounting Machine	1	1	1	Rim clamp suggested
Wheel Alignment Equipment	1	1	1	Four wheel with rack, including alignment tools
Wheel Balancer	1	1	1	Off car type
BRAKES				
Asbestos Contamination Removal System	1	1	1	OSHA Approved
Bleeder, Brake	2	2	2	Pressure
Lathe, Brake	1	1	1	Mobile or stationary, including disc & drum service attachments
Micrometer, Brake Disc	3	4	5	
Micrometer, Brake Drum	3	4	5	Including calibration equipment
ENGINE PERFORMANCE				
Analyzer, Engine	1	1	1	Including scope (lab scope with ignition display capability acceptable)
Analyzer, Exhaust Gas	1	1	1	Four or five gas
Carburetor Tools, Computer	1	1	1	
Cleaner, Fuel Injection	1	1	1	
Gauge Set, Carburetor Plug and Angle	1	1	1	
Gauge Set, Fuel Injection Pressure	1	1	1	W/adapters
Light, Timing Advance	3	4	5	
Probe, Logic	3	4	5	

Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
Pyrometer	1	1	1	
Scope, Lab	1	1	1	Dual trace
System Tester, Battery/Starter/Charging	2	2	2	
Tester, Cylinder Leakage	1	1	1	
Tester, Injector Pulse	1	1	1	
ELECTRICAL/ELECTRONIC SYSTEMS				
Pick Tool Set, Connector	1	1	1	
Service Tool, Alternator	1	1	1	
System Tester, Battery/Starter/Charging	3	4	5	